Coronis Uniti®

Enjoy your reading room

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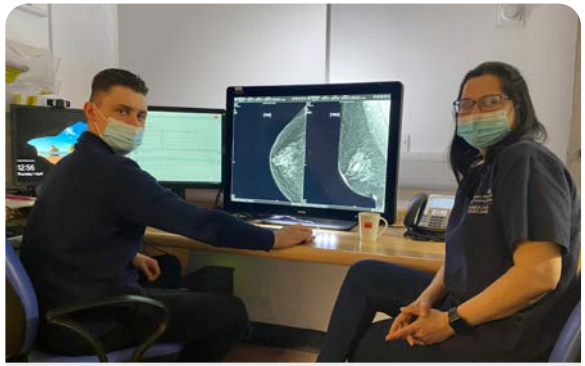
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The radiology landscape has changed a lot in the last few years. There is more flexibility and contact between departments and specialties, home reading is booming and technology has advanced. With these trends come higher workloads, stricter regulations, and the need to manage budgets wisely.

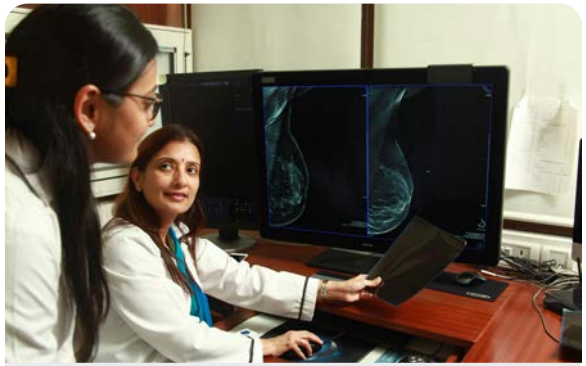
When first shown in 2014, Coronis Uniti was the only display in the world that combined PACS and breast images from various modalities.

Today, its one-piece simplicity proves itself more essential than ever.



"The new Barco displays have enabled us to further expand our capabilities; meaning we can now see more details both in grayscale and color, and with Coronis Uniti, we can combine PACS and mammography applications on one display with a bigger surface."

Tom Leyland,
PACS Manager at Wrightington, Wigan and Leigh Teaching Hospitals NHS Foundation Trust, United Kingdom



"We were the first in the country to invest in the Coronis Uniti and this investment in an all-in-one multimodality display replaced a number of dedicated displays. It's been a 'wow' experience from the very beginning."

Bijal Jankharia,
Breast radiologist at Picture This by Jankharia, Mumbai, India



"The Coronis Uniti is a truly intuitive, ergonomic display that allows us to read more studies, faster, and with greater diagnostic accuracy."

Caroline A. Reich,
MD, PhD, President & CEO at Women's Imaging Associates, Birmingham, Alabama, USA

Diagnostic advantage. Workflow efficiency. Viewing comfort.
Enjoy your reading room.

Coronis Uniti

With Coronis Uniti, you're working with the biggest and most equipped display system that exists for general radiology and breast imaging.

Experience the power of a feature-rich design and a strong engine that renders rich content, while enabling fast-paced, dynamic, and 3D medical imaging.



Boost your diagnostic work



Razor-sharp detail

Coronis Uniti's offers you a full-size, 12-million-pixel screen. It presents images with **crystal-clear precision**, on a large, flexible, and bezel-free image area. This provides an uninterrupted view of large images, numerous smaller studies, or various combinations and and overlays, in any layout you wish.

High luminance

Coronis Uniti is super bright so you can **see more details,** with less strain on the eyes. With its high and stable calibrated luminance and contrast ratio, you can rest assured that you're handling your cases with the utmost precision. Double the Uniti's luminance at the touch of a button, for an even clearer view.

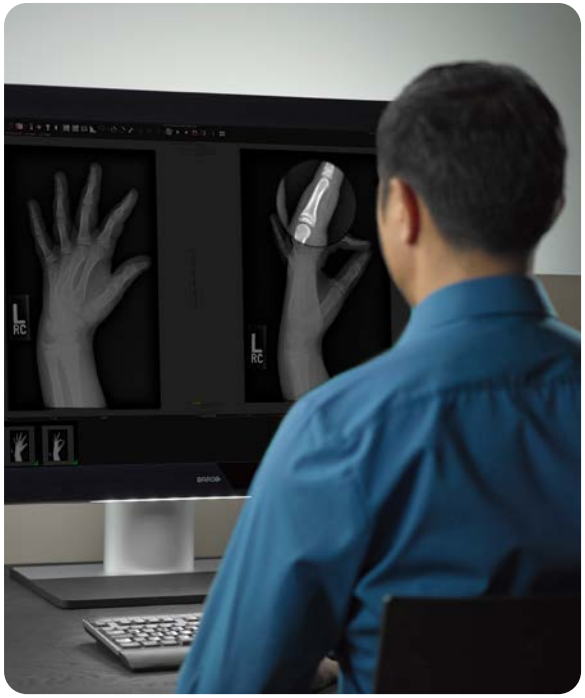
Steady colors, superb grays

Every Coronis Uniti display meets the DICOM standard for grayscales and guarantees consistent, perceptually linear color, at all times. The display will **remain stable** throughout its full lifetime, even on the smallest pixel level.

Technologies that enhance **image quality**

12 MP	The highest resolution (12MP) on a large, bezel-free image area.
STEADYCOLOR	Calibrated to meet the DICOM standard for grayscales and to guarantee consistent color behavior.
COLOR PPU	Makes every pixel permanently DICOM-compliant, ensuring consistent colors and grayscales.
QAWEB	A cloud-based technology for automated calibration and Quality Assurance.
I-GUARD	Works wonderfully well with QAWeb Enterprise to ensure 24/7 compliance to medical image quality standards.
DURALIGHT	Delivers exceptional brightness. The result is more JNDs, unveiling more image details.
I-LUMINATE	Doubles the brightness – to more than 2,000 nits.
33" SCREEN	Designed to mirror a human's natural field of vision thanks to the 33" screen size and Fusion form factor.

Perfect your workflow



One display, any image

Coronis Uniti is designed to allow images of a wide range of modalities: from x-rays and ultrasounds to 3D mammography. One-of-a-kind color and grayscale calibration ensures **consistent PACS and breast imaging.** It's the solution that replaces all display configurations, so say bye to multi-head setups or other workstations to view additional exams.

Swift reading

Efficiency is key to focused and productive work. With our RapidFrame technology, you can quickly cine through a stack of images without them getting blurry. Coronis Uniti is specially designed for the **3D modalities of breast tomosynthesis and CT,** so you can push your workflow as fast as you like.

Peak productivity

When you opt for one of our powerful medical MXRT graphics boards with your Coronis Uniti display, you'll have at your disposal a full range of Intuitive Workflow Tools. These are designed to help you **work with focus, flexibility, and comfort.** For example, did you know that SpotView decreases reading time by 15.5%?*

Learn more about our suite of Intuitive Workflow Tools at **www.barco.com/iwt**.

** Krupinski, E. (2018). Reducing Radiation Dose in Digital Mammography by Increasing Display Luminance. Proceedings of SIIM, 2018.*

Technologies that enhance **productivity**

RAPIDFRAME — Ensures crisp and in-focus moving images.

TOUCHPAD — For faster control and smooth image manipulations.

30 BIT COLOR — For unmatched processing power, loading current and prior exams in no time.

ALC — Ambient Light Compensation, for consistent images in any lighting conditions.

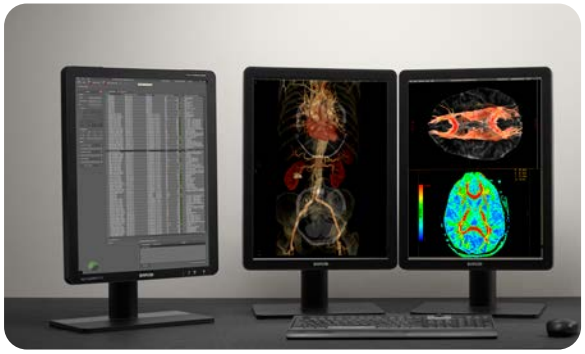
SPOTVIEW — Focuses the light on things you want to have a closer look at.

FILM CLIP — Use your display as a virtual light box to view film priors.

RAPIDFRAME — Ensures crisp and in-focus moving images.

CLONEVIEW — Projects images onto the large screen with ease.

Work with comfort and ease, anywhere



The old reading room



The new reading room

Optimum ergonomics

Coronis Uniti is designed to mirror a human's natural field of vision, featuring a unique aspect ratio, a 33" screen size, and a Fusion form factor to create the perfect canvas for **side-by-side comparison of multiple images**. This format minimizes head and eye movement and reduces the need for scaling and rearranging to complete studies more efficiently.

Balanced surroundings

The Uniti's Optical Glass reduces internal and external reflections and allows easy cleaning. Turn on SoftGlow desk and wall lights to reduce strain on your eyes. Ambient light sensors check the brightness of your surroundings. And you can choose to view grayscale images in clear grays or add a blue tint according to your choice. **Your preferences, your rules.**

Elegant control

Last but not least, Coronis Uniti **unites ergonomics and performance features** to help you sail through your workday in comfort. The Barco touchpad allows for easy scrolling, and has six hotkeys you can personalize to your preference.

Technologies that enhance **ergonomics**

33" SCREEN	Designed to mirror a human's natural field of vision thanks to the 33" screen size and Fusion form factor.
3:2 RATIO	Wide screen uninterrupted by bezels, combined with 33" screen size means you need less clicks and less panning and zooming.
OPTICAL GLASS	Reduces reflection, enhances image sharpness and hence viewing comfort. Durable and scratch-resistant.
SOFTGLOW	Task light and wall light to reduce eye fatigue.
VIRTUALVIEW	Create a virtual nav head on the main display.
DIMVIEW	Dims auxiliary displays while reading to focus on image details on the main display.
CLEARBASE BLUEBASE	Switch between Clear base and Blue base viewing modes on-the-fly.
AAM	Application Appearance Manager assures that color images appear as intended and allows luminance control of individual windows.
RAPIDFRAME	Ensures crisp and in-focus moving images.

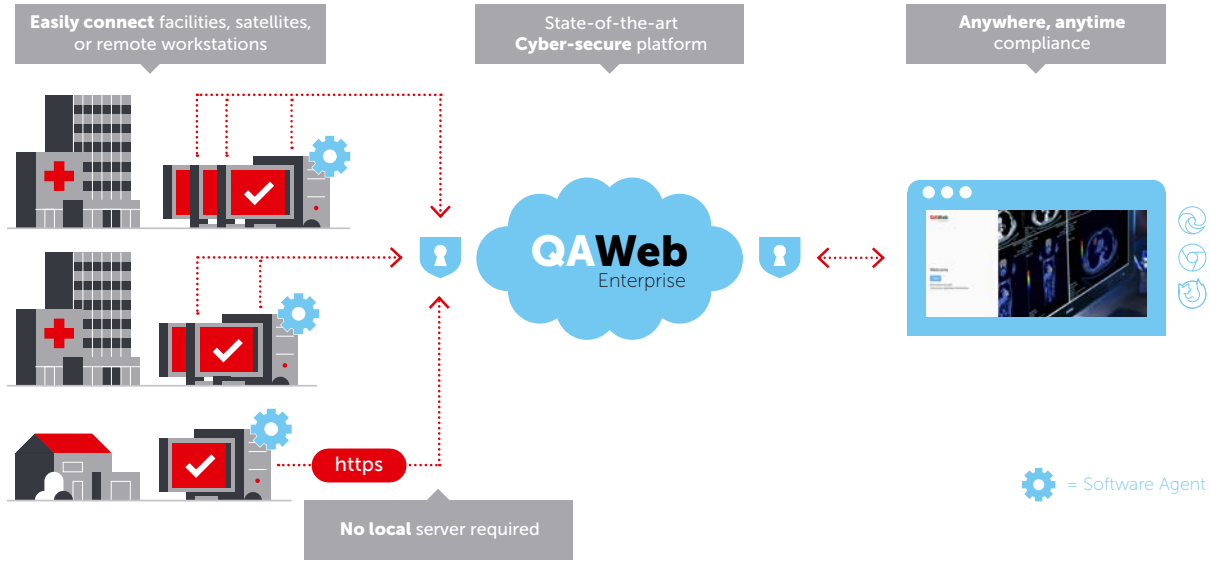
Grow with your entire organization

Always a clear view with QAWeb Enterprise

QAWeb Enterprise helps you manage image QA standards and guidelines across your entire healthcare enterprise with less effort, lower cost, and complete confidence. This fully automated and secure platform supports a consistent image quality and uptime for all PACS display systems within your facility and across your enterprise.

The sophisticated system grows with your enterprise, enabling you to maximize IT resources and assure uptime while reducing costs.

QAWeb Enterprise is free to download and install on any Barco diagnostic display. Learn more at **www.barco.com/qaweb.**

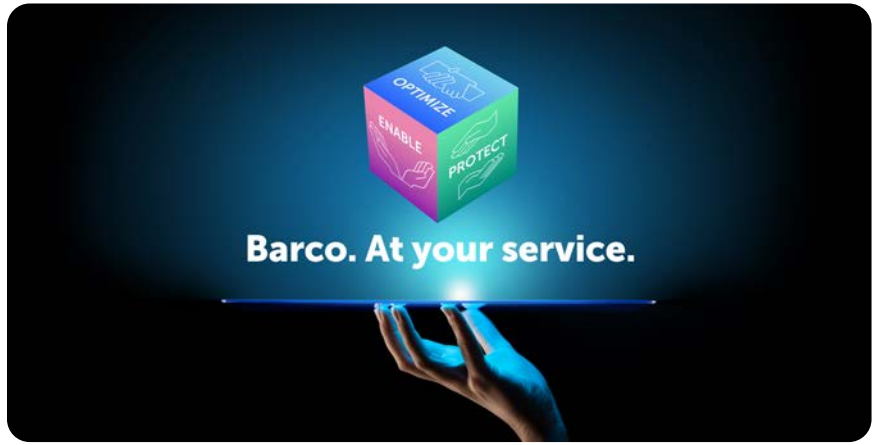


At your service

Your project is our priority. We offer several services that can help your teams with technical and fleet management.

- Prolong your displays' warranty and lifetime
- Sign up for priority support
- Get expert insights into how you can optimize your display fleet & ROI

Discover how we can support your organization at **www.barco.com/services.**



A proven formula

Take a **giant leap in performance**, and make the **long-term investment** that will return in productivity, job satisfaction, and security. Coronis Uniti is the display that your reading room and your radiologists deserve.

- **High luminance:** 7% faster reading on 2D mammograms[1]
- Luminance level of 1000 cd/m^2: **increased detection probability** of breast microcalcifications[2]
- 19% **improved productivity** with Fusion format compared to using separate dual displays[3]
- SpotView: **15.5% decreased reading time, with 6% increased reading accuracy** in evaluation of mammography contrast-detail phantom[4]
- RapidFrame: 10% increase in **detection of small details** in moving images (such as tomosynthesis)[5]
- CSDF (SteadyColor): **perception of smaller gradations of color,** e.g. to show radiotracer levels in PET-CT images[6]

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Workflow efficiency.
Viewing comfort.

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Footnotes

[1] Bemelmans, F. et al. (2016). Luminance Level of a Monitor: Influence on Detectability and Detection Rate of Breast Cancer in 2D Mammography. SPIE Medical Imaging, 2016

[2] Kimpe, T. R. & Xthona, A. (2012). Quantification of Detection Probability of Microcalcifications at Increased Display Luminance Levels. Breast Imaging, Springer 7361, 490-497. 2012

[3] Weschler, M. (2012). 6MP Displays Offer Speed, Comfort Benefits. Auntminnie, 2012

[4] Krupinski, E. (2018). Reducing Radiation Dose in Digital Mammography by Increasing Display Luminance. Proceedings of SIIM, 2018

[5] Marchessoux, C., et al. (2011). Validation of New Digital Breast Tomosynthesis Medical Display. Proceedings of SPIE, 7966, 79660R, 2011

[6] Avanaki, A., et al. (2018). Accuracy of Estimating PET Activity Depends on Medical Display Color Characteristics. Proceedings of SIIM, 2018

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Technical specifications are subject to change without prior notice. Please check www.barco.com for the latest specifications.

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